

## UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/090,978	03/04/2002	Federico Pio	856063.616D1	1770
500	7590 12/18/2002			
SEED INTELLECTUAL PROPERTY LAW GROUP PLLC 701 FIFTH AVE			EXAMINER	
SUITE 6300	V L	WILLE, DOUGLAS A		
SEATTLE, W	A 98104-7092			
			ART UNIT	PAPER NUMBER
			2814	-
			DATE MAILED: 12/18/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

			M.
	,	Application No.	Applicant(s)
	OFFI - A - C - S	10/090,978	PIO ET AL.
	Office Action Summary	Examiner	Art Unit
•		Douglas A Wille	2814
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sheet v	vith the correspondence address
THE - Exte after - If the - If NC - Failt - Any	ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CFI SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory peure to reply within the set or extended period for reply will, by streply received by the Office later than three months after the med patent term adjustment. See 37 CFR 1.704(b).	N. R 1.136(a). In no event, however, may a . reply within the statutory minimum of th riod will apply and will expire SIX (6) MC atute, cause the application to become A	reply be timely filed  irty (30) days will be considered timely.  NTHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).
1)⊠	Responsive to communication(s) filed on	04 March 2002 .	
2a)□	<u> </u>	This action is non-final.	
3)□ Disposit	Since this application is in condition for all closed in accordance with the practice undition of Claims	owance except for formal m	atters, prosecution as to the merits is .D. 11, 453 O.G. 213.
4)⊠	Claim(s) 1-12 is/are pending in the applica	tion.	
,—	4a) Of the above claim(s) is/are with		
5)	Claim(s) is/are allowed.		
	Claim(s) 1-12 is/are rejected.		
7)	Claim(s) is/are objected to.		
•	Claim(s) are subject to restriction an	d/or election requirement	
	ion Papers	arer ereductive equilibrium.	
9) 🗌	The specification is objected to by the Exam	iner.	
10)🖾	The drawing(s) filed on <u>04 March 2002</u> is/arc	e: a)⊠ accepted or b)□ objec	ted to by the Examiner.
	Applicant may not request that any objection to	the drawing(s) be held in abey	rance. See 37 CFR 1.85(a).
11) 🔲	The proposed drawing correction filed on	is: a) ☐ approved b) ☐	disapproved by the Examiner.
	If approved, corrected drawings are required in	reply to this Office action.	
12) 🔲	The oath or declaration is objected to by the	Examiner.	
Priority ι	ınder 35 U.S.C. §§ 119 and 120		
13)🖂	Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C.	§ 119(a)-(d) or (f).
a)[	☑ All b) ☐ Some * c) ☐ None of:		
	1.⊠ Certified copies of the priority docume	ents have been received.	
	2. Certified copies of the priority docume		Application No.
* S	3. Copies of the certified copies of the papplication from the International see the attached detailed Office action for a	riority documents have beer Bureau (PCT Rule 17.2(a)).	received in this National Stage
	cknowledgment is made of a claim for dome	•	
a	☐ The translation of the foreign language Acknowledgment is made of a claim for dom	provisional application has b	een received.
Attachment			
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)
S. Patent and Tr FO-326 (Re		Action Summary	Part of Paper No. 3

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## DETAILED ACTION

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

- 2. Claims 1 5 and 9 12 are rejected under 35 U.S.C. 102(e) as being anticipated by Yamazaki.
- 3. With respect to claims 1 and 9, Yamazaki shows (see cover Figure and column 4, line 50 et seq.) a FET with a source region 101, a drain region 103 a channel region 102 and the channel region has a width determined by the implant regions 105, 106.
- 4. With respect to claims 2 and 10, the variable doping profile is determined by the regions 105, 106 which are implanted (column 6, line 17).
- 5. With respect to claims 3 and 11, the regions 105, 106 determine the effective width of the channel since they are pinning regions (column 4, line 65).

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6. With respect to claim 4, the doping profile has a minimum at the center of the channel since the regions 105, 106 are formed by implanting further dopants in the already doped substrate.

7. With respect to claims 5 and 12, there is continuity of the doping in the regions 102, 105, 106.

## Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claims 6 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamazaki in view of Iwasaki.
- 10. Yamazaki shows a method of adjusting the threshold voltage (column 7, line 27) and Iwasaki shows (see cover Figure page 3 et seq.) with a pair of transistors. It would have been obvious to use the Yamazaki method of adjusting the threshold of the Iwasaki device to optimize them and to use different adjustments since the FETs are different.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas A Wille whose telephone number is (703) 308-4949. The examiner can normally be reached on M-F (6:15-3:45).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (703) 308-4918. The fax phone numbers for the

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organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Douglas A. Wille Patent Examiner

December 11, 2002